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FIG. 2

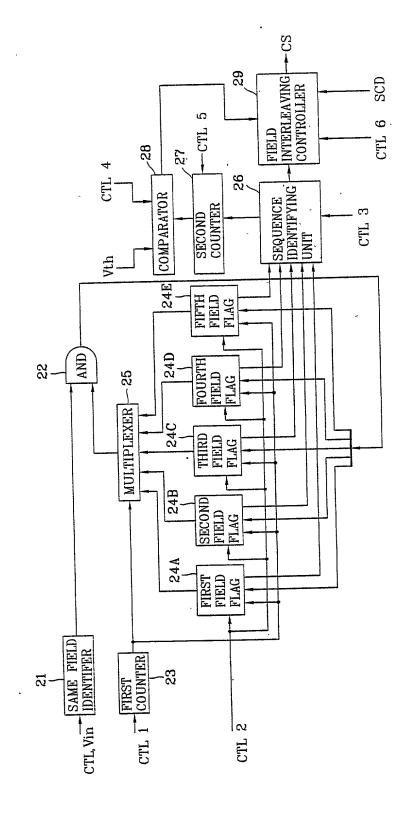
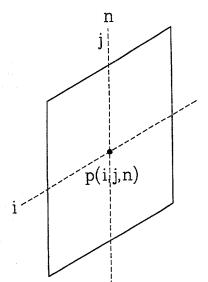
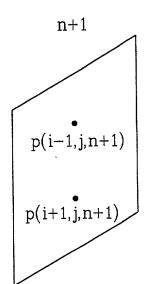
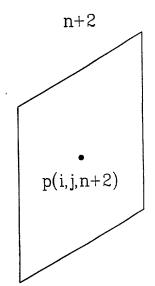


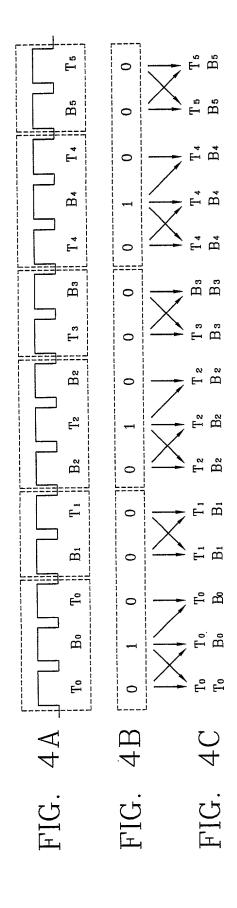


FIG. 3









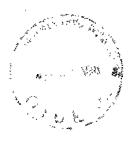


FIG. 5A

All variables are initialized to 0's every field.

```
FOR(i=1; i < Vertical\_Size; i++)
   FOR(j=0; j<Horizontal_Size; j++)}
       half_interval= |p(i-1,j,n+1)-p(i+1,j,n+1)|/2
       mean=(p(i-1,j,n+1)+p(i+1,j,n+1))/2
       bd_{n+2&n} = p(i,j,n+2) - p(i,j,n)
       IF(p(i,j,n)-mean \le half\_interval) THEN
           bd_{(n+1\&n)=0}
       ELSE
           bd_{(n+1\&n)=|p(i,j,n)-mean|-half_interval}
       END IF
       final_bd_(n+1&n)=min\{bd_(n+2&n),bd_(n+1&n)\}
       sum_{(n+1\&n)} = sum_{(n+1\&n)} - motion_{(n+1\&n)} [0]
       FOR(k=0; k<6; k++)motion_{(n+1&n)[k]=motion_{(n+1&n)[k+1]}
       IF(final_bd_(n+1&n)>THRESHOLD<sub>motion</sub>) THEN
          motion_(n+1&n)[6]=1
       ELSE
          motion_{n+1&n}[6]=0
       END IF
       sum_{(n+1&n)}=sun_{(n+1&n)}+motion_{(n+1&n)}[6]
       IF(sum_(n+1\&n)>3) THEN
          total\_motion\_(n+1&n)=total\_motion\_(n+1&n)+1
       IF(|p(i,j,n+2)-mean| \leq half\_interval) THEN
          bd_{n+1&n+2}=0
       ELSE
          bd_{n+1}(n+1) = p(i,j,n+2) - mean_1 - half_interval
       END IF
       final_bd_(n+1&n+2)=min\{bd_(n+2&n),bd_(n+1&n+2)\}
       sum_{(n+1\&n+2)}=sum_{(n+1\&n+2)}-motion_{(n+1\&n+2)}[0]
       FOR(k=0; k<6; k++) motion_(n+1&n+2)[k]=motion_(n+1&n+2)[k+1]
       IF(final_bd_(n+1&n+2)>THRESHOLD<sub>motion</sub>) THEN
          motion_{n+1&n+2} = 1
       ELSE
          motion_{n+1&n+2}[6]=0
       END IF
       sum_{(n+1\&n+2)}=sum_{(n+1\&n+2)}+motion_{(n+1\&n+2)[6]}
       IF(sum_(n+1&n+2)>3) THEN
          total_motion_(n+1&n+2)=total_motion_(n+1&n+2)+1
       END IF
```

FIG. 5B

IF(|total_motion_(n+1&n)-total_motion_(n+1&n+2)| <THRESHOLD_diff_motion) THEN

```
"The scene change did not occurred."
ELSE
   IF(total_motion_(n+1&n)<THRESHOLD_total_motion) THEN
      total_motion_(n+1&n)=0
   END IF
   IF(total\_motion\_(n+1\&n+2) < THRESHOLD_{total\_motion}) THEN
      total_motion_(n+1&n+2)=0
   END IF
   IF(total\_motion\_(n+1&n) < total\_motion\_(n+1&n+2) THEN
       The scene was abruptly changed in the (n+2)th field."
   ELSE IF(total_motion_(n+1&n)>total_motion_(n+1&n+2)) THEN
      "The scene was abruptly changed in the (n+1)th field."
      "The scene change did not occurred."
   END IF
END IF
                                 FIG. 6
All variables are initialized to 0's every field.
FOR(i=1; i<Vertical_Size; i++){
   FOR(j=0; j<Horizontal_Size; j++){</pre>
       half\_interval = |p(i-1,j,n+1) - p(i+1,j,n+1)|/2
       mean=(p(i-1,j,n+1)+p(i+1,j,n+1))/2
       IF(|p(i,j,n)-mean| \le half\_interval) and (|p(i,j,n+2)-mean| \le half\_interval)
           THEN bd_{n+2&n}=0
       ELSE
           bd_{(n+2\&n)=|p(i,j,n+2)-p(i,j,n)|}
```